	Application No.	Applicant(s)
Notice of Allowability		
	10/088,962 Examiner	SLIKTA ET AL. Art Unit
	Philip C. Tucker	1712
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject to	oplication. If not included n will be mailed in due course. THIS
1. A This communication is responsive to Amendment of 5/9/05	<u>5</u> .	
2. The allowed claim(s) is/are 1,3-5 and 7-18.		
3. The drawings filed on are accepted by the Examine	r.	
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have	e been received.	
2. Certified copies of the priority documents have been received in Application No		
 Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). 		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	•	-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the (Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal I	Patent Application (PTO-152)
2. \square Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	Paper No./Mail Da 08), 7. ⊠ Examiner's Amend	ate ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Statem	ent of Reasons for Allowance
of Biological Material	9. Other	
		Philip C Tucker Primary Examiner Art Unit: 1712
U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) No.	otice of Allowability	Part of Paper No./Mail Date 20050725

Application/Control Number: 10/088,962 Page 2

Art Unit: 1712

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

On page 1 of the specification, after the Title, delete the first sentence, and insert therefor:

- -- This is a 371 of PCT/US00/25483 filed September 15, 2000 which claims benefit of provisional application 60/155,593, filed on September 24, 1999. --
- 2. The following is an examiner's statement of reasons for allowance: The prior art fails to teach or suggest the present invention, utilizing the specified combination of surfactants to improve water injectivity in a waterflood process. Taggard (4690217) teaches a similar process, but utilizes an anionic surfactant. Baker (4287950) teaches a process in which a gas is initially used, then a surfactant to improve oil recovery. A combination of an ethoxylated quaternary ammonium with an anionic surfactant is preferred (column 3, 32-35), as compared to the combination of the ethoxylated quaternary ammonium and nonionic surfactant of the present invention. The two processes further differ in that the present invention deals with the improving of the

Page 3 Application/Control Number: 10/088,962

Art Unit: 1712

water injectivity, while that of Baker uses the surfactant mixture to directly displace the oil.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip C. Tucker whose telephone number is 571-272-1095. The examiner can normally be reached on Monday - Friday, Flexible schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

Art Unit 1712